AMENDMENTS TO THE CLAIMS:

The following is a complete list of the pending claims.

1 (Currently amended) A method for reducing the incorporation of non-standard amino

acids nor leucine into a heterologous protein expressed by a microorganism comprising:

co-expressing in the modifying a microorganism to co-express a heterologous protein and a non-standard amino acid degrading protein, wherein the expression of the non-standard

amino acid degrading protein is increased relative to its expression in the microorganism

before said modifying step:

and wherein the non-standard amino acid degrading protein is a glutamate

dehydrogenase, leucine dehydrogenase, valine dehydrogenase, phenylalanine

dehydrogenase, or glutamate/leucine/phenylalanine/valine dehydrogenase.

2 (Previously presented) The method of claim 1 wherein the non-standard amino acid

degrading protein is a glutamate dehydrogenase.

3. (Currently amended) The method of claim [[2]] 12 wherein the non-standard amino acid

degrading protein is a wild-type or K92L variant Escherichia coli glutamate

dehydrogenase [[from] or a Escherichia coli glutamate dehydrogenase having a leucine at

the amino acid position that corresponds with amino acid position 92 of said wild-type glutamate dehydrogenase, wherein the amino acid at position 92 of said wild-type

glutamate dehydrogenase is a lysine.

(Currently amended) The method of claim 3 wherein the non-standard amino acid 4.

degrading protein has a sequence selected from comprises SEO ID NO:2 or 4.

5. (Currently amended) The method of claim 4 wherein the non-standard amino acid

degrading protein is encoded by a DNA molecule having a sequence selected from

comprising SEQ ID NO:1 or 3.

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DM 21756904 Response to Oct. 17, 2008 Office Action 6-7. (Cancelled)

8. (Original) The method of claim 1 wherein the microorganism is Escherichia coli.

9. (Previously presented) The method of claim 1 wherein the expressed heterologous

protein is a somatotropin.

10. (Previously presented) The method of claim 9 wherein the somatotropin is selected from

the group consisting of human, equine, bovine, ovine, porcine, canine, and feline

somatotropin.

11. (Original) The method of claim 9 wherein the somatotropin is boying somatotropin.

12. (Currently amended) The method of claim 2 1-wherein the microorganism is Escherichia

eoli (E. eoli); wherein the non-standard amino acid degrading protein is E. eoli an

Escherichia coli glutamate dehydrogenase or a lysine 92 leucine variant of E. coli

 ${\bf glutamate\ dehydrogenase; and\ wherein\ the\ heterologous\ protein\ is\ bovine\ som atotropin}.$ 

(Cancelled)

14. (Original) The method of claim 1 wherein the heterologous protein and the non-standard

amino acid degrading protein are expressed from a single expression vector.

15. (Original) The method of claim 1 wherein the heterologous protein and the non-standard

amino acid degrading protein are expressed from at least two distinct expression vectors.

16-41. (Cancelled)

 (Previously presented) The method of claim 1 wherein the heterologous protein and/or the non-standard amino acid degrading protein is expressed from a location in the

microorganism's genome.

43. (Currently amended) The method of claim 1 wherein the non-standard amino acid

degrading protein is a leucine dehydrogenase, a valine dehydrogenase, a glutamate/leucine/phenylalanine/valine dehydrogenase, or a phenylalanine

dehydrogenase, or an opine dehydrogenase.

44. (Withdrawn) The method of claim 43 wherein the non-standard amino acid degrading

protein is a leucine dehydrogenase from Bacillus cereus, a leucine dehydrogenase from

Bacillus subtilis, a leucine dehydrogenase from Nostoc sp., a leucine dehydrogenase from

 ${\it Shew an ella \ one idensis, \ a \ valine \ dehydrogen ase \ from \ {\it Streptomyces \ avermitilis}, \ or \ a}$ 

glutamate/leucine/phenylalanine/valine dehydrogenase from Nitrosomonas europaea.

45. (Withdrawn - Currently amended) The method of claim 44 wherein the non-standard

amino acid degrading protein has a sequence selected from comprises SEO ID NO:6, 8,

10, 12, 14, or 16.

46. (Withdrawn - Currently amended) The method of claim 45 wherein the non-standard

amino acid degrading protein is encoded by a DNA molecule having a sequence selected

from comprising SEQ ID NO:5, 7, 9, 11, 13, or 15.

47-48. (Cancelled)

49. (New) The method of claim 1, wherein said non-standard amino acid degrading protein

is a microbial non-standard amino acid degrading protein.